



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200
Fax 613 632-5246

D2574
Job Sheet 210199



Part No: D2574

Job Qty: 10 pcs

Part Name: Saddle, Aft, In



Part Weight: 0 lbs

Status: New

Priority: Medium

Job Created: 5/29/20

Job Tracking No:

Due Date: 6/25/20

Created By: Marie Lajeunesse

Type: SOLD

Description:

Note: DWG REV F IPP Rev: I As Per RevE 06-01-27 JLM

Ship Via:

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier		Sign-off
					Setup Hrs	Run Hrs	Workcenter / Supplier	Lead Time	
90	Machining - Issue SN	10 pcs	6/24/20		0.00	0.00	HAAS - 1		DJP 20-07-12
							HAAS - 2		
							HAAS - 3		
							HAAS - 4		
100	HAAS 4 Axis - B4B	10 pcs	6/24/20		1.00	16.13	HAAS - 1 - B4B		DJP 20-07-16
							HAAS - 2 - B4B		
							HAAS - 3 - B4B		
							HAAS - 4 - B4B		
110	Conventional Mill - 1 - B4B	10 pcs	6/24/20		0.00	1.25	Conventional Mill - 1 - B4B		DJP 20-07-16
							Conventional Mill - 2 - B4B		
120	QC 2	10 pcs	6/24/20		0.00	0.00	QC 2 - 1		
							QC 2 - 12		
							QC 2 - 14		
							QC 2 - 17		
							QC 2 - 19		
							QC 2 - 2		
							QC 2 - 20		
							QC 2 - 22		
							QC 2 - 23		
							QC 2 - 25		
							QC 2 - 32		
							QC 2 - 33		
							QC 2 - 35		
							QC 2 - 39		
							QC 2 - 4		
							QC 2 - 40		
							QC 2 - 44		
							QC 2 - 45		
							QC 2 - 48		
							QC 2 - 49		



Container No: S287299



Part: D2574

Job No: 210199

Serial No/Batch: S287299

Revision: Rev.F

Inspector:

Exp Date:

Instructions: Various STC's

Date: 07/12/20

Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
CANADA
TEL: 1 613 632-5200
Email: sales@dartaero.com
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					QC 2 - 50	
					QC 2 - 51	
					QC 2 - 52	
					QC 2 - 57	
					QC 2 - 62	
					QC 2 - 63	
					QC 2 - 8	
					QC 2 - 66	
					QC 2 - 64	
					QC 2 - 65	
					QC 2 - 5	
					QC 2 - 71	
					QC 2 - 73	
					QC 2 - 69	
					QC 2 - 76	
					QC 2 - 86	
					QC 2 - 83	
130	QC 8	10 pcs	6/24/20	0.00 0.00	QC 8 - 12	
					QC 8 - 14	7/20/07/18
					QC 8 - 17	
					QC 8 - 20	
					QC 8 - 25	
					QC 8 - 3	
					QC 8 - 32	
					QC 8 - 33	
					QC 8 - 35	
					QC 8 - 39	
					QC 8 - 4	
					QC 8 - 44	
					QC 8 - 45	
					QC 8 - 49	
					QC 8 - 58	
					QC 8 - 8	
					QC 8 - 9	
					QC 8 - 68	
					QC 8 - 67	
					QC 8 - 1 (A)	
					QC 8 - 47	
					QC 8 - 40	
					QC 8 - 52	
					QC 8 - 23	
					QC 8 - 57	
					QC 8 - 76	
					QC 8 - 61	
					QC 8 - 66	
					QC 8 - 73	
					QC 8 - 82	
140	Handfinish - 1-1 Chemical- B4B	10 pcs	6/24/20	0.00 0.75	Handfinish - 1 - 1 - B4B	
					Handfinish - 1 - 2 - B4B	
					Handfinish - 1 - 3 - B4B	
					Handfinish - 1 - 4 - B4B	
					Handfinish - 1 - 5 - B4B	
					Handfinish - 1 - 6 - B4B	
					Handfinish - 1 - 7 - B4B	
					Handfinish - 1 - 8 - B4B	
					Handfinish - 1 - 9 - B4B	
					Handfinish - 1 - 10 - B4B	
					Handfinish - 1 - 11 -	

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						B4B	
						Handfinish - 1 - 12 - B4B	
						Handfinish - 1 - 13 - B4B	
						Handfinish - 1 - 14 - B4B	
						Handfinish - 1 - 15 - B4B	
						Handfinish - 1 - 16 - B4B	
						Handfinish - 1 - 17 - B4B	
						Handfinish - 1 - 18 - B4B	
						Handfinish - 1 - 19 - B4B	
						Handfinish - 1 - 20 - B4B	
						Handfinish - 1 - 21 - B4B	
						Handfinish - 1 - 22 - B4B	
150	Powdercoat - 1 White Gl(A)- B4B	10 pcs	6/25/20	0.00	0.33	Powdercoat - 1 - B4B	
						Powdercoat - 2 - B4B	
						Powdercoat - 3 - B4B	
						Powdercoat - 4 - B4B	
160	QC 3	10 pcs	6/25/20	0.00	0.00	QC 3 - 10	
						QC 3 - 13	
						QC 3 - 15	
						QC 3 - 17	
						QC 3 - 18	
						QC 3 - 2	
						QC 3 - 28	
						QC 3 - 3	
						QC 3 - 30	
						QC 3 - 34	
						QC 3 - 36	
						QC 3 - 41	
						QC 3 - 51	
						QC 3 - 58	
						QC 3 - 59	
						QC 3 - 68	
						QC 3 - 9	
						QC 3 - 40	
						QC 3 - 19	
						QC 3 - 43	
						QC 3 - 24	
						QC 3 - 61	
						QC 3 - 81	
						QC 3 - 82	
						QC 3 - 87	
170	Packaging 3-1 - Stock - B4B	10 pcs	6/25/20	0.00	0.00	Packaging 3 - 1 - B4B	
						Packaging 3 - 2 - B4B	
						Packaging 3 - 3 - B4B	
						Packaging 3 - 4 - B4B	
						Packaging 3 - 5 - B4B	
						Packaging 3 - 6 - B4B	
						Packaging 3 - 7 - B4B	
						Packaging 3 - 8 - B4B	
						Packaging 3 - 9 - B4B	

2020/07/23

20-07-28

START: 2:10 A.T. 3:30 FINISH: 12:40

DAS
82
9-89

JUL 23 2020

DAS
28
9-89

					Packaging 3 - 10 - B4B	
					Packaging 3 - 11 - B4B	
					Packaging 3 - 12 - B4B	
					Packaging 3 - 13 - B4B	
					Packaging 3 - 14 - B4B	
					Packaging 3 - 15 - B4B	
					Packaging 3 - 16 - B4B	
					Packaging 3 - 17 - B4B	
					Packaging 3 - 18 - B4B	
					Packaging 3 - 19 - B4B	
					Packaging 3 - 20 - B4B	
					Packaging 3 - 21 - B4B	
					Packaging 3 - 22 - B4B	
					Packaging 3 - 23 - B4B	
					Packaging 3 - 24 - B4B	
					Packaging 3 - 25 - B4B	
					Packaging 3 - 26 - B4B	
					Packaging 3 - 27 - B4B	
					Packaging 3 - 28 - B4B	
					Packaging 3 - 29 - B4B	
					Packaging 3 - 30 - B4B	
					Packaging 3 - 31 - B4B	
					Packaging 3 - 32 - B4B	
					Packaging 3 - 33 - B4B	
					Packaging 3 - 34 - B4B	
					Packaging 3 - 35 - B4B	
					Packaging 3 - 36 - B4B	
					Packaging 3 - 37 - B4B	
180 QC 21 - SA	10 pcs	6/25/20	0.00	0.00	QC 21 - SA - 21	
					QC 21 - SA - 70	
					QC 21 - SA - 9	

Part Op 100 - (HAAS CNC vertical machine #1) Program Batch No. S28727 Machine Step No. 1 per Folio FA051 and inspect
 Descriptions: per attached Dimension Sheets 2-Machine Step No 2 per Folio FA051 and inspect per attached Dimension Sheets

110 - (Manufacture as per dwg) Machine keyway as per dwg D2573 & D2574

120 - (QC2- Inspect parts off machine FAI/FAIB)

130 - (QC8- Inspect parts - second check)

140 - (Chemical Conversion Coat per QSI005 4.1)

150 - (White Gloss(Ref:4.3.5.1) per QSI005 4.3-Alum) START TIME: _____ FINISH TIME: _____

160 - (QC3- Inspect Part Finish)

170 - (Identify as per dwg & Stock Location: _____)

180 - (QC21- Final Inspection - Work Order Release)

Job BOM

Part / Item	Component Name	Quantity	Operation	Container
D6101-005	Saddle Billet	10 pcs (1 ea)	90-Machining - Issue SN	<u>S285042</u> (x12)

Job Allocations

Operation	Component Part	Required	Inventory	Allocated
90-Machining - Issue SN	D6101-005	10	24	0

Part Specifications

Spec No	Description	Target/Tolerance	Limits	Type	Special Comments
1	Saddle, Aft Inboard	0.438Inches	+ 0.005 - 0.000	0.443 0.438	
2	Saddle, Aft Inboard	1.745Inches	+ 0.010 - 0.000	1.755 1.745	
3	Saddle, Aft Inboard	3.495Inches	+ 0.010 - 0.000	3.505 3.495	
4	Saddle, Aft Inboard	1.745Inches	+ 0.010 - 0.000	1.755 1.745	

5	Saddle, Aft Inboard	7.990Inches	+ 0.020 - 0.000	8.010 7.990
6	Saddle, Aft Inboard	0.490Inches	+ 0.020 - 0.000	0.510 0.490
7	Saddle, Aft Inboard	0.257Inches	+ 0.005 - 0.000	0.262 0.257
8	Saddle, Aft Inboard	0.375Inches	+ 0.005 - 0.000	0.380 0.375
9	Saddle, Aft Inboard	0.490Inches	+ 0.020 - 0.000	0.510 0.490
10	Saddle, Aft Inboard	1.174Inches	+ 0.010 - 0.000	1.184 1.174
11	Saddle, Aft Inboard	0.558Inches	+ 0.020 - 0.000	0.578 0.558
12	Saddle, Aft Inboard	1.174Inches	+ 0.010 - 0.000	1.184 1.174
13	Saddle, Aft Inboard	1.365Inches	+ 0.010 - 0.000	1.375 1.365
14	Saddle, Aft Inboard	2.495Inches	+ 0.010 - 0.000	2.505 2.495
15	Saddle, Aft Inboard	4.119Inches	+ 0.010 - 0.000	4.129 4.119
16	Saddle, Aft Inboard	0.115Inches	+ 0.020 - 0.000	0.135 0.115
17	Saddle, Aft Inboard	0.115Inches	+ 0.020 - 0.000	0.135 0.115
18	Saddle, Aft Inboard	0.240Inches	+ 0.020 - 0.000	0.260 0.240
19	Saddle, Aft Inboard	0.115Inches	+ 0.020 - 0.000	0.135 0.115
20	Saddle, Aft Inboard	0.178Inches	+ 0.020 - 0.000	0.198 0.178
21	Saddle, Aft Inboard	3.210Inches	+ 0.040 - 0.000	3.250 3.210
22	Saddle, Aft Inboard	0.230Inches	+ 0.020 - 0.000	0.250 0.230
23	Saddle, Aft Inboard	0.115Inches	+ 0.020 - 0.000	0.135 0.115
24	Saddle, Aft Inboard	0.307Inches	+ 0.005 - 0.000	0.312 0.307
25	Saddle, Aft Inboard	0.760Inches	+ 0.005 - 0.000	0.765 0.760
26	Saddle, Aft Inboard	0.352Inches	+ 0.020 - 0.000	0.372 0.352
27	Saddle, Aft Inboard	0.470Inches	+ 0.060 - 0.000	0.530 0.470
28	Saddle, Aft Inboard	0.615Inches	+ 0.020 - 0.000	0.635 0.615
29	Saddle, Aft Inboard	0.053Inches	+ 0.020 - 0.000	0.073 0.053
30	Saddle, Aft Inboard	0.240Inches	+ 0.020 - 0.000	0.260 0.240
31	Saddle, Aft Inboard	1.500Inches	+ 0.020 - 0.000	1.520 1.500
32	Saddle, Aft Inboard	0.115Inches	+ 0.020 - 0.000	0.135 0.115
33	Saddle, Aft Inboard	0.240Inches	+ 0.040 - 0.000	0.280 0.240
34	Saddle, Aft Inboard	0.240Inches	+ 0.020 - 0.000	0.260 0.240
35	Saddle, Aft Inboard	2.000Inches	+ 0.020 - 0.000	2.020 2.000
36	Saddle, Aft Inboard	0.023Inches	+ 0.020 - 0.000	0.043 0.023

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DART AEROSPACE LTD	Work Order: 210199
Description: Saddle, Aft Inboard	Part Number: D2574
Inspection Dwg: D2574 Rev. F	Page 1 of 1

Inspect dimensions highlighted on inspection sheet drawing D2574 Rev. E and record below:

				Recorded Actual Dimensions					
Dim	Min	Max	Go/No Go Gauge	1	2	3	4	By	Date
A	0.438	0.443		0.438	.438	.438	0.438		
B	1.745	1.755		1.750	1.750	1.750	1.750		
C	3.495	3.505		3.500	3.500	3.500	3.500		
D	1.745	1.755		1.750	1.750	1.750	1.750		
E	7.990	8.010		8.002	8.002	8.003	8.003		
F	0.490	0.510		0.496	.504	.502	0.499		
G	0.257	0.262		0.258	0.258	0.258	0.258		
H	0.375	0.380		0.376	0.376	0.376	0.376		
I	0.490	0.510		0.501	0.501	.501	.502		
J	1.174	1.184		1.179	1.179	1.179	1.179		
K	0.558	0.578		0.567	0.567	.567	.569		
L	1.174	1.184		1.179	1.179	1.179	1.179		
M	1.365	1.375		1.370	1.370	1.370	1.370		
N	2.495	2.505		2.500	2.500	2.500	2.500		
O	4.119	4.129		4.124	4.124	4.124	4.124		
P	0.115	0.135		0.132	0.131	.134	.134		
Q	0.115	0.135		0.125	0.1245	0.1245	0.1245		
R	0.240	0.260		0.253	0.253	0.253	0.253		
S	0.115	0.135		0.128	0.128	.128	.128		
T	0.178	0.198		0.188	0.188	0.188	0.188		
U	3.210	3.250		3.230	3.230	3.230	3.230		
V	0.230	0.250		0.241	0.241	.241	.241		
W	0.115	0.135		0.135	.134	.134	0.134		
X	0.307	0.312		0.311	0.311	0.310	0.311		
Y	0.760	0.765		0.762	0.762	0.762	0.762		
Z	0.352	0.372		0.368	.365	.365	0.366		
AA	0.470	0.530		0.500	0.500	0.500	0.500		
AB	0.615	0.635		0.622	.624	.624	0.623		
AC	0.053	0.073		0.0600	0.058	.057	.063		
AD	0.240	0.260		0.250	0.250	.251	.251		
AE	1.500	1.520		1.510	1.510	1.510	1.510		
AF	0.115	0.135		0.130	.135	.135	0.135		
AG	0.240	0.280		0.275	0.275	0.275	0.275		
AH	0.240	0.260		0.250	.247	.248	.248		
AI	2.000	2.020		2.000	2.000	2.000	2.000		
AJ	0.023	0.043		0.033	0.033	0.033	0.033		
Accept/Reject									

Measured by: DTP	Audited by: mk
Date: 20-07-12	Date: 20/07/18

Rev	Date	Change	Revised by	Approved
B	02.09.27	Re-format; Added Rev. D	KJ	
C	02.10.11	Re-format; Added DT8682, DT8683, DT8684	KJ	
D	05.05.05	Added dimension AI	KJ/RF	
E	05.12.05	Added dimension AJ	KJ/JLM	
F	13.03.07	Dwg Rev updated	KJ	

DART AEROSPACE LTD	Work Order: 210199
Description: Saddle, Aft Inboard	Part Number: D2574
Inspection Dwg: D2574 Rev. F	Page 1 of 1

Inspect dimensions highlighted on inspection sheet drawing D2574 Rev. E and record below:

				Recorded Actual Dimensions				By	Date
Dim	Min	Max	Go/No Go Gauge	5	6	7	8		
A	0.438	0.443		0.438	0.438	0.438	0.438		
B	1.745	1.755		1.750	1.750	1.750	1.750		
C	3.495	3.505		3.500	3.500	3.500	3.500		
D	1.745	1.755		1.750	1.750	1.750	1.750		
E	7.990	8.010		8.002	8.002	8.002	8.002		
F	0.490	0.510		0.498	0.498	0.497	0.496		
G	0.257	0.262		0.258	0.258	0.258	0.258		
H	0.375	0.380		0.376	0.376	0.376	0.376		
I	0.490	0.510		0.502	0.501	0.501	0.501		
J	1.174	1.184		1.179	1.179	1.179	1.179		
K	0.558	0.578		0.569	0.569	0.569	0.569		
L	1.174	1.184		1.179	1.179	1.179	1.179		
M	1.365	1.375		1.370	1.370	1.370	1.370		
N	2.495	2.505		2.500	2.500	2.500	2.500		
O	4.119	4.129		4.124	4.124	4.124	4.124		
P	0.115	0.135		0.135	0.135	0.135	0.135		
Q	0.115	0.135		0.124	0.124	0.124	0.125		
R	0.240	0.260		0.252	0.252	0.252	0.252		
S	0.115	0.135		0.129	0.128	0.127	0.126		
T	0.178	0.198		0.188	0.188	0.188	0.188		
U	3.210	3.250		3.230	3.230	3.230	3.230		
V	0.230	0.250		0.240	0.240	0.240	0.239		
W	0.115	0.135		0.133	0.132	0.132	0.131		
X	0.307	0.312		0.310	0.311	0.311	0.312		
Y	0.760	0.765		0.762	0.762	0.762	0.762		
Z	0.352	0.372		0.366	0.367	0.364	0.364		
AA	0.470	0.530		0.500	0.500	0.500	0.500		
AB	0.615	0.635		0.624	0.624	0.622	0.622		
AC	0.053	0.073		0.060	0.060	0.060	0.060		
AD	0.240	0.260		0.250	0.250	0.249	0.249		
AE	1.500	1.520		1.510	1.511	1.511	1.511		
AF	0.115	0.135		0.130	0.130	0.130	0.130		
AG	0.240	0.280		0.275	0.278	0.275	0.275		
AH	0.240	0.260		0.248	0.248	0.249	0.249		
AI	2.000	2.020		2.000	2.001	2.001	2.001		
AJ	0.023	0.043		0.033	0.033	0.033	0.033		
Accept/Reject									

Measured by: 9-89	Audited by: mk
Date: 29/07/15	Date: 20/07/18

Rev	Date	Change	Revised by	Approved
B	02.09.27	Re-format; Added Rev. D	KJ	
C	02.10.11	Re-format; Added DT8682, DT8683, DT8684	KJ	
D	05.05.05	Added dimension AI	KJ/RF	
E	05.12.05	Added dimension AJ	KJ/JLM	
F	13.03.07	Dwg Rev updated	KJ	

DART AEROSPACE LTD	Work Order: 210199
Description: Saddle, Aft Inboard	Part Number: D2574
Inspection Dwg: D2574 Rev. F	Page 1 of 1

Inspect dimensions highlighted on inspection sheet drawing D2574 Rev. E and record below:

				Recorded Actual Dimensions					
Dim	Min	Max	Go/No Go Gauge	9	10	11	12	By	Date
A	0.438	0.443		0.438	0.438	0.438	0.438		
B	1.745	1.755		1.750	1.750	1.750	1.750		
C	3.495	3.505		3.502	3.502	3.502	3.502		
D	1.745	1.755		1.750	1.750	1.750	1.750		
E	7.990	8.010		8.002	8.003	8.003	8.003		
F	0.490	0.510		0.496	0.497	0.497	0.498		
G	0.257	0.262		0.258	0.258	0.258	0.258		
H	0.375	0.380		0.376	0.376	0.376	0.376		
I	0.490	0.510		0.503	0.503	0.501	0.500		
J	1.174	1.184		1.179	1.179	1.179	1.179		
K	0.558	0.578		0.569	0.570	0.568	0.567		
L	1.174	1.184		1.179	1.179	1.179	1.179		
M	1.365	1.375		1.370	1.370	1.370	1.370		
N	2.495	2.505		2.500	2.500	2.500	2.500		
O	4.119	4.129		4.124	4.124	4.124	4.124		
P	0.115	0.135		0.135	0.133	0.132	0.133		
Q	0.115	0.135		0.125	0.125	0.125	0.125		
R	0.240	0.260		0.252	0.252	0.253	0.253		
S	0.115	0.135		0.128	0.128	0.128	0.128		
T	0.178	0.198		0.188	0.188	0.188	0.188		
U	3.210	3.250		3.230	3.230	3.230	3.230		
V	0.230	0.250		0.239	0.241	0.241	0.240		
W	0.115	0.135		0.130	0.130	0.130	0.130		
X	0.307	0.312		0.311	0.311	0.311	0.311		
Y	0.760	0.765		0.762	0.762	0.762	0.762		
Z	0.352	0.372		0.363	0.363	0.363	0.363		
AA	0.470	0.530		0.500	0.500	0.500	0.500		
AB	0.615	0.635		0.622	0.622	0.622	0.622		
AC	0.053	0.073		0.060	0.058	0.058	0.058		
AD	0.240	0.260		0.249	0.250	0.249	0.250		
AE	1.500	1.520		1.511	1.510	1.510	1.510		
AF	0.115	0.135		0.130	0.130	0.130	0.130		
AG	0.240	0.280		0.275	0.275	0.275	0.275		
AH	0.240	0.260		0.249	0.249	0.248	0.247		
AI	2.000	2.020		2.001	2.000	2.000	2.000		
AJ	0.023	0.043		0.033	0.033	0.033	0.033		
Accept/Reject									

Measured by: 52	/ JSP
Date: 10/07/15	

Audited by: [Signature]	20/07/18
Date:	

Rev	Date	Change	Revised by	Approved
B	02.09.27	Re-format; Added Rev. D	KJ	
C	02.10.11	Re-format; Added DT8682, DT8683, DT8684	KJ	
D	05.05.05	Added dimension AI	KJ/RF	
E	05.12.05	Added dimension AJ	KJ/JLM	
F	13.03.07	Dwg Rev updated	KJ	

Entered: _____ Date: _____



WORK ORDER NON-CONFORMANCE / ROUTE UPDATE

NCR No. _____

Route update only ☐

Job: _____ Part No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐	DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Eng. (Non-AW) ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Engineering ☐ Water Jet ☐ Supplier ☐ Quality ☐			
Date :	Sequence #:	QTY Affected :		MRB (QSI042)	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor	
Root Cause Operator ☐ Manufacturing Process ☐ Equip/Tooling ☐ Handling/Presservation ☐ Material ☐ Product Improvement ☐ Process Improvement ☐ Human Factors ☐ ☐ Pressure/Forced ☐ Bending ☐ Crushing ☐ Cracks ☐ Crimp/Kink/Ripple/Wave/Twist ☐ Marks/Chatter ☐ Mislabeled		FAULT CATEGORY ☐ Contamination ☐ Misaligned/off center ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Incomplete/Unclear Instructions ☐ Drill Holes ☐ Fit/Function ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain Direction ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set/Set-up ☐ Positioned Wrong ☐ Outside Tolerance ☐ Drawing ☐ Finish ☐ Part Lost/Missing ☐ Misread			
Other/Details:					